INFORMATION MANAGEMENT FOR TRANSPORTATION RESEARCH AND DEVELOPMENT

Part I: An Inventory of Information Sources

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LIBRARY
N.Y.S. Dept. of Transportation
Engineering R&D Bureau
State Campus, Bldg. 7A/600
1220 Washington Avenue
Albany, NY 12232

ENGINEERING RESEARCH AND DEVELOPMENT BUREAU
New York State Department of Transportation
State Campus, Albany, New York 12232

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NYSDOT
Library
50 Wolf Road, POD 34
Albany, New York 12232

PART I: AN INVENTORY OF INFORMATION SOURCES

Information exchange is critically important to the research community. Availability of information technologies has made possible wider, more efficient collaboration and communication among researchers, opened new avenues for scientific exploration, and dramatically improved analytical capabilities.

To ensure effective, efficient use of valuable resources, researchers must be sure of starting where others have ended, rather than where they began. Before embarking on an investigation, they should be certain that they are building on and adding to what has already been accomplished. A comprehensive literature review thus is a key to avoiding unnecessary expensive repetition of effort. However, researchers are often unaware of previous or ongoing efforts, which makes them vulnerable to duplication and expending resources redundantly. Moreover, existence of numerous uncoordinated database networks complicates review of the literature, and makes comprehensive search of all information sources virtually impossible.

To assist researchers along the difficult path of reviewing the literature, Part I of this discussion paper is an inventory of major transportation information sources, listing key information producers, collectors, and disseminators. It is intended as a guide to major existing sources, as well as those planned or already developing. Part I provides background information on who is involved in originating, storing, and retrieving transportation engineering information, what kind of information is available, and how the research community can access it. It is preparatory for the discussion of coordinating these sources that follows in Part II.

A. Tools of Information Dissemination

Media, methods, and equipment for spreading transportation engineering information are numerous. Nine are described here:

1. Publishers (of books, journals, working papers, and also of abstracts and indexes): This medium is still the mode of choice for many transportation professionals, but as computerized tools become more accessible, printed materials are losing their readers, which in turn is driving up their costs. Once unchallenged among information sources, this medium is losing ground to electronic systems.

2. Photocopies of Technical Articles: Several commercial vendors disseminate technical information through this medium.

3. Microforms: This medium is also losing its popularity, largely because of user perception of its inconvenience.

4. Electronic Online Services: Availability of online technologies has provided users with numerous advantages: 1) reduced time-lag between finding that a document exists and its becoming accessible, 2) less time needed for actual searching, 3) improved searching strategies and effectiveness, and 4) increased access to documents. Cost and need for trained staff to conduct the search are major concerns associated with online services. The amount of online database searching might increase if online access costs were lower.

5. CD-ROM: These can be used for reference purposes and/or for research (data extraction, manipulation, and comparison.) CD-Rom searching is less costly than online searching and does not require trained staff. Users can conduct a search themselves rather than having a librarian do it for them.

6. Flexible Diskettes: These represent another medium for disseminating information, often requiring special configurations to work on certain computers. Disadvantages associated with using them are that they require training to learn how to manipulate and use the data.

7. Bulletin Boards: These provide informal but timely data, often released the same day or very recently. Bulletin board subscribers can use personal computers to download data to a copy disk for subsequent review and manipulation. Gaining access to bulletin boards requires a microcomputer, modem, phone line, and commercial software. In some cases, access depends on having a password. As fiscal resources diminish, many organizations are turning to bulletin boards to provide users with current information. (More information is given in Appendix A.)

8. Network Technology: This is the ultimate example of how technologies can enhance communications. Through networks, users already gain access to online catalogs of remote libraries. Users can review library holdings to locate and request specific searches available through those libraries, and use various CD-Rom products and selected magnetic tapes, including online catalogs.

9. Electronic Mail: A medium whereby users can transmit and receive messages. Users can also load, download, and transmit datasets through e-mail. It has made possible more effective, efficient, and regular communication among researchers.

B. Types of Information Producers/ Collectors/ Disseminators

1. Governmental (Federal/State)Information Sources

Three federal sources of information are of particular interest to the transportation engineering research community:

a. The U.S. Department of Transportation (USDOT)

USDOT of course stands foremost among information producers when one adds to its own publications those it sponsors from authors and organizations both in academia and state and regional governments. The USDOT Library also ranks near the top among collectors and repositories of transportation-related information.

b. The National Technical Information Service (NTIS)

Established in 1976, NTIS is a central source for public sale of reports on U. S. government-sponsored research prepared by federal and state agencies. It provides a comprehensive register and authoritative inventory of information products and services disseminated by the federal government. Full summaries of research reports in many specific subject categories (including transportation) are published regularly. NTIS also maintains an online bibliographic database. (See Appendix B for details.)

c. The National Institute of Standards and Technology (NIST)

Established in 1901, it maintains an international collection of information from various scientific disciplines. Information collected by NIST is communicated to scientific communities worldwide. (See Appendices A and B for more information on federal online services, abstracts, and indexes.)

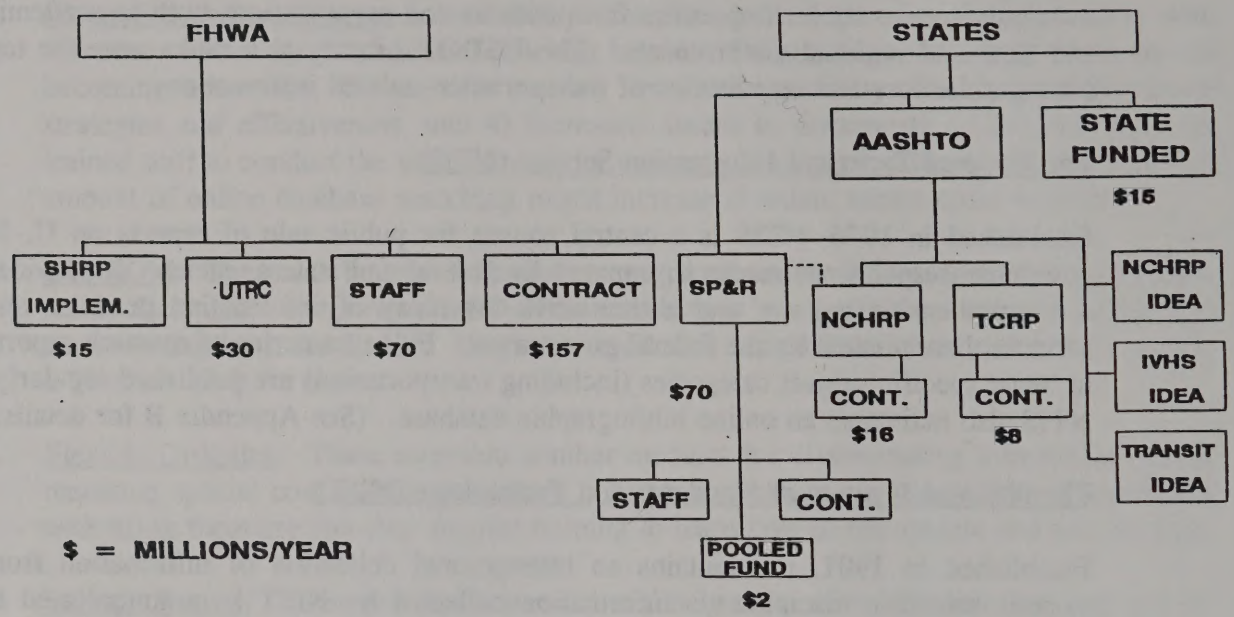
In addition to these sources, state DOTs produce, collect, and disseminate transportation-related literature. (Appendix D lists selected state DOT library contacts.) Currently, all states but Hawaii and Georgia are connected to the AASHTO VAN network, the online AASHTO database. (See Appendix B for more details on AASHTO VAN.)

2. Intergovernmental Information Sources

Intergovernmental (or semi-governmental) research organizations are primary disseminators of transportation-related literature. (Appendix D lists selected transportation research libraries.)

TRB is part of the National Academy of Sciences/National Research Council, with an executive committee guiding its operations and including chief administrative officers of the several member departments. Member DOTs are also major sources of TRB funding. It manages the National Cooperative Highway Research Program (NCHRP) and National Cooperative Transit Research Program (NCTRP), which conduct research investigations and are also guided by the AASHTO Standing Committee on Research and AASHTO member departments. Figure 1 shows major national highway research programs.

Figure 1. Major national highway research programs.



3. Academic Information Services

Engineering schools and university transportation centers have long been significant contributors to the transportation literature. (Appendix D lists selected transportation university libraries.)

The University Transportation Research Center (UTRC) program is federally sponsored, with the Federal Highway and Transit Administrations each providing half the program's financial support. Their mission is to develop fundamental innovative research at university-level centers. The program also seeks to transfer research results to working transportation professionals.

Now in only its seventh year, the program has 63 participating universities, divided into 13 regions across the United States, and has been conducting 450 research projects with a total of $83 million in federal and matching funds. Approximately 560 reports have been issued and 1400 university students and faculty have been engaged in the various research activities.

4. Professional/Non-Profit Organizations

Several professional societies are actively involved in producing and disseminating information. (Appendix E is a selection of major transportation-related professional societies, trade associations, and non-profit organizations.) The final output medium is mostly CD-ROM, but some organizations are moving to electronic publishing.

The National Materials Property Data Network (NMPDN) is a non-profit organization disseminating engineering information worldwide. It maintains an operational online network through STN International. Content includes performance data, and also nomenclature and terminology guides to information. Users include large corporations, universities, and small research and engineering companies.

5. For-Profit Organizations

Established in 1884, Engineering Information Inc. is a for-profit organization providing a wide variety of services:

a. Document and distribution services, including document delivery, Ei Order, Ei View, and Ei Image Management .

b. Reference, search, and research services, including Ei Reference Desk software, Ei Helpline, and Ei Search.

c. Network services: Ei Net, Ei Workstation, and RLG Citadel. Engineering Information Inc. processes over 400,000 technical papers annually, half of which are fully abstracted. It maintains electronic databases including Ei Compendex Plus online and on-disc (Appendix B provides detailed information), Ei Page One online and on-disc, Ei Chem Disc, Ei EEDisc, and Ei Energy/Environment Disc. Publications include Engineering Index, Energy Index, Bioengineering and Biotechnology Index, Ei/SPIE: Critical Papers in Optical Engineering, Ei/SPIE: Page One Optics, and Ei Thesaurus.

Other organizations in this category provide numerous services in a wide variety of formats, including:

a. Online services from such companies as DIALOG, STN, and Datastar.

b. CD-ROM services from University Microform International (UMI), Silver Platter, and DIALOG.

c. Copies of technical articles from ISI, UMI, IOD, Infostore, and others.

d. Information publishing by Elsevier/Pergamon, Springer Verlag, Wiley, Taylor & Francis, Kluwer and others.

e. Microform services from UMI and IHS.

6. Library Resources

Library services provide tools and access for locating source documents and their contents through:

a. Card catalogs.

b. Indexes and abstracts providing access to both document sources and their contents.

c. Bibliographic utilities offering subscribers online access to merged card catalogs of three national libraries (the Library of Congress, the Library of Medicine, and the Library of Agriculture) as well as individual library consortia. Each utility provides its contributors of records, who are also its subscribers, with ability to update their own bibliographic records online throughout workdays. Records thus created are up-to-the-minute, online, and coast-to-coast.

An example of bibliographic utilities is the Online Computer Library Center (OCLC), created by the Library of Congress and by OCLC's 7000 other subscribers. It provides over 24 million records referring information seekers to information on what is available and who owns it. It represents up-to-the-minute nationwide online bibliographic information.

Appendix D lists selected transportation libraries in the United States and Canada. In addition to the USDOT Library, those considered richest in transportation-related sources of information are in Washington and New York City:

a. Library of Congress (LC)
The Library of Congress (established in 1800) contains 97 million sources of information including book collections (15 million), audio materials, talking books, manuscripts, maps, microforms, visual materials, and print materials. Technical reports include 1.5 million documents of interest to scientists and engineers. LC uses an online system. Extension of referral system service through Internet is proposed. Bibliographic utilities and the three national libraries provide access to the catalogs of major libraries throughout the world.

b. Engineering Societies Library (ESL)

ESL (established in 1904) represents the merged libraries of its five founder engineering societies [American Society of Civil Engineers (ASCE), American Institute of Mining, Metallurgical and Petroleum Engineers (AIME), American Society of Mechanical Engineers (ASME), Institute of Electronic and Electrical Engineers (IEEE), and Institute of Chemical Engineers (AICHE)]. Collections include published books and serials; conference and symposia proceedings; unpublished papers and preprints; standards; journals and transactions of the founder societies, scientific and engineering firms, and labs; rare books and periodicals dating from 1665; and foreign reports. ESL serves members of the publication staffs of the member societies. It also provides information to foreign libraries; small engineering firms without libraries; engineers in developing countries; university libraries; local engineering students, researchers, filmmakers; and law firms.

7. Network Technology

a. Internet

Internet is a worldwide computer network of networks. It includes governmental, educational, and commercial users and vendors. It was established in the United States from an experimental Defense Department network called ARPAnet that was designed to support military research. Over time universities and other institutions connected into the network and it expanded. It is estimated that 20 million people currently have access, and it covers more than 30 countries worldwide.

Connection to Internet is through a vendor, and the type of connection depends on the number of users on the user network. A university might have an expensive leased phoneline, but an individual connection can be as simple as a personal computer and modem. Cost of an Internet connection varies according to providers (See Appendices F and G for lists of commercial Internet providers.) For individual users, a dial-up service is needed that calls into Internet using a modem. If dial-up service is used, a monthly fee is paid along with an additional hourly fee for actual connect time. For businesses, however, a leased-line service is usually the preferred method, requiring a monthly or annual fixed fee.

Internet allows access to worldwide information sources, including libraries, universities, governments, private corporations, and user groups. Internet services include e-mail, news feeds, Telnet, and File Transfer Protocol (FTP.) E-mail allows users access to highly varied sources, including PC users on MCI Mail and Compuserve. A Telnet connection allows a user to log into a remotely located computer where the user has an account.

FTP lets users transfer files between computers, and is mostly used to transfer files from a remote host computer to the user's computer. It can be used to download such information as articles and books, in the form of data archives that organizations choose to make available to the public through a service known as anonymous FTP. Additionally, an FTP user can transfer files from his computer to a host. Files can also be copied from one host to another.

C. Conclusion

This has been a list of key producers, collectors, and disseminators of information. It is by no means intended to serve as a comprehensive directory to all information sources. Additionally, this paper has focused on highway engineering and has generally excluded information sources related to transportation planning.

SUGGESTED READING

Committee on Science, Engineering, and Public Policy. Information Technology and the Conduct of Research: The User's View. National Academy Press, Washington, D.C., 1989.

Renee E. McHenry and Catherine Cortelyou. Directory of Transportation Libraries and Information Centers in North America. Transportation Division, Special Libraries Association, June 1993, (6th ed.).

W. David Penniman, David M. Liston, Jr. and Martin M. Cummings. Final Report on the Conference for Exploration of a National Engineering Information Service. Cornell Information, Media Services Printing, Ithaca, New York, 1992.

Terry E. Shoup, Stanley P. Goldstein, and Jay Waddell. Information Sources: A Guide for the Engineer. Information Handling Services, Englewood, Colorado, 1984.

Jan Swanbeck and Peter Hernon (eds.). Depository Library Use of Technology: A Practitioner's Perspective. Ablex Publishing Corporation, Norwood, New Jersey, 1993.

APPENDIX A

TRANSPORTATION-RELATED ELECTRONIC BULLETIN BOARDS

(Source: Correspondence from Jerome Maddock, Manager, Information Services, Transportation Research Board, February 1994)

TRANSPORTATION BULLETIN BOARD SYSTEMS

BULLETIN BOARD	BBS DATA	VOICE DATA
CIME-ISE Computers in Mechanical Engineering Information and Software Exchange American Society of Mechanical Engineering	(608) 233-3378 N-8-1 9600 Baud	Sysop: G. Jacson No Fees
EBBS Engineering Bulletin Board System	(805) 253-2917 N-8-1 2400 Baud	(805) 259-6902 Sysop: A. Skwra $75/$150/Yr
Environmental Protection Agency	(914) 541–5742 N–8–1 9600 Baud	No Fees
FAA Federal Aviation Administration	(202) 267-5697 N-8-1 9600 Baud	(202) 267-3321 Sysop: M. Lee No Fees
FEBBS FHWA Electronic B.B. System Federal Highway Administration	(202) 366-3764 N-8-1 9600 Baud	(202) 366-9022 Sysop: C. Shea No Fees
Federal Information Exchange	(800) 783–3349 N–8–1 9600 Baud	No fees
Federal Transit Administration	(800) 231–2061 N–8–1 9600 Baud	No fees
Haxamat Info Exchange (FEMA)	(708) 972–3275 N–8–1 9600 Baud	No fees
INFOTAP University of California at Berkeley Institute of Transportation Studies	(510) 642-7088 N-8-1/E-7-1 1200 Baud	(510) 642-1008 Sysop: P. McDonald No Fees
ITE Institute of Transportation Engineering	(800) 982-4683 (202) 863-5487 N-8-1/E-7-1 1200 Baud	(202) 554-8050 Sysop: J. Morales
MARLinspike U.S. Maritime Administration U.S. Dept. of Transportation	(202) 366-8505 N-8-1	(202) 366-5807 Sysop: UnKnown No Fees
McLink McTrans Center University of Florida	(904) 392-3225 N-8-1/E-7-1 2400 Baud	(904) 392-0378 Sysop: B. Sampson No Fees

Michigan Technology Transfer TTTC	(906) 487-2148 N-8-1 9600 Baud	(906) 487-2102 Sysop: D. Calomen No Fees
New Jersey Department of Transportation	(609) 530-5151 N-8-1 2400 Baud	(609) 530-3508 Sysop: J. Panzitt No Fees
Ohio Department of Transportation	(614) 466–1136 N–8–1 9600 Baud	Sysop: Terry Dawson No fees
PCTRANS University of Kansas Transportation Center	(913) 864-5058 N-8-1 1200 Baud	(913) 864-5655 Sysop: C. Thor $25-75/Yr.
Professional RBBS West Coast Wholesale Computer	(702) 356-1048 N-8-1 1200 Baud	Not Available Sysop: J. Monday No Fees
Reno Traffic Engineering	Coming N-8-1 2400 Baud	(702) 785-2230 Sysop: J. Poston No Fees
RTAP Federal Transit Administration	(202) 628-2537 N-8-1 2400 Baud	(800) 845-4369 Sysop: C. Zeilingr No Fees
Traffic World Magazine Online	(202) 393–0016 N–8–1	No fees
Transportation of Canada	(613) 736–9767 N–8–1 9600 Baud	No fees
Transporter Texas Department of Transportation Texas A&M University	(409) 845-2326 N-8-1 2400 Baud	(409) 845-4369 Sysop: J. Chism No Fees
UTEC EBBS Northwest Technology Transfer Washington State DOT	(206) 705-6840 N-8-1 1200 Baud	(206) 753-1028 Sysop: R. Deer No Fees

APPENDIX B

ONLINE TRANSPORTATION DATABASES

1. TRANSPORTATION RESEARCH INFORMATION SERVICES (TRIS)*

ORGANIZATION MAINTAINING DATABASE:	Transportation Research Board
CONTACT PERSON:	Jerome T. Maddock 2101 Constitution Avenue, N.W. Washington, DC 20418 tel. (202) 334–2995; fax (202) 334–3495
SUBJECT AREAS COVERED:	Various modes and aspects of transportation including planning, design, finance, construction, maintenance, equipment, traffic operations, management, marketing, and other topics.
TOTAL NUMBER OF CITATIONS:	332,000+
NUMBER OF CITATIONS WITH ABSTRACTS:	315,000+
SOURCES OF DATA:	More than 1,000 journals; books, reports, conference proceedings, theses, research, FHWA, FTA, NHTSA, USDOT, Congressional hearings and reports, GAO, trade and professional organizations, universities. Also through exchange and international bodies.
TIME SPAN:	1968 to present
UPDATING FREQUENCY:	Monthly
COST TO ACCESS DATABASE:	$54/hr + print + telecom via DIALOG
HOW TO ACCESS:	TRIS Information File is available on–line as DIALOG File 63. A search can be requested via DIALOG on–line search specialist [tel. (202) 334–3250] or by searching DIALOG directly. To obtain access to DIALOG contact: DIALOG Information Services, 3460 Hillview Ave., Palo Alto, CA 94304 Tel. (800) 334–2564
PUBLICATIONS PRODUCED:	Urban Transportation Abstracts (annual); Highway Research Abstracts (quarterly); Highway Safety Literature. To subscribe contact (202) 334–3214.

* There are four principal active subfiles of TRIS: 1) Highway Research Information Service (HRIS), which contains some 140,000 summaries of on–going and recently completed research projects and abstracts of research reports, technical papers in conference proceedings, and journal articles about highway and non–rail mass transit; 2) Urban Mass Transportation Research Information Service (UMTRIS), which contains some 22,000 entries with information on planning, designing, maintaining, operation, managing, and financing all modes of public transit; 3) Highway Safety Literature, which contains some 37,000 summaries of published works on highway safety; and 4) the Transportation Library (TLIB) subfile.

(Source: The Urban Transportation Monitor, February 4, 1994, pp.10–11).

2. COMPENDEX PLUS

ORGANIZATION MAINTAINING DATABASE:	Engineering Information, Inc.
CONTACT PERSON:	Mary Berger Castle Point on the Hudson Hoboken, NJ 07030 tel. (800) 221-1044; fax (201) 216-8532
SUBJECT AREAS COVERED:	All aspects of engineering including transportation.
TOTAL NUMBER OF CITATIONS:	170,000 per year
NUMBER OF CITATIONS WITH ABSTRACTS:	All
SOURCES OF DATA:	Journals, conference proceedings.
TIME SPAN:	1970 to date
UPDATING FREQUENCY:	Weekly
COST TO ACCESS DATABASE:	Varies by vendor, approximately $2.00 per minute.
PUBLICATIONS PRODUCED:	Engineering Index.

(Source: The Urban Transportation Monitor, February 4, 1994, pp.10-11).

3. INTERNATIONAL ROAD RESEARCH DOCUMENTATION (IRRD)

ORGANIZATION MAINTAINING DATABASE: OECD Road Transport Research Program

CONTACT PERSON: E. Hom
2 rue André-pascal
75775 Paris Cadex 16
France
tel. (33-1) 4524-92 44; fax (33-1) 4524-79 60

SUBJECT AREAS COVERED: Road construction and road transport: traffic and transport; road safety - accidents; vehicles - design safety, inspection, maintenance, impact on environment; roads, pavements, bridges, tunnels; materials; soil; administration and economics forecasting and financing.

TOTAL NUMBER OF CITATIONS: 200,000 (80% publications, 20% research projects).

NUMBER OF CITATIONS WITH ABSTRACTS: 200,000

SOURCES OF DATA: Journals, books, conferences, proceedings, theses, research in progress, statistical communications and information on standards and specifications.

TIME SPAN: 1972 to present

UPDATING FREQUENCY: ESA/TRS monthly, CD-ROM twice per year.

COST TO ACCESS DATABASE: CD-ROM: one time purchase price US$1,900 + annual license-US$1,500; ESA/TRS (file 43): connection time.

PUBLICATIONS PRODUCED: None.

(Source: The Urban Transportation Monitor, February 4, 1994, pp.10-11).

4. NTIS BIBLIOGRAPHIC DATABASE

ORGANIZATION MAINTAINING DATABASE: National Technical Information Service

CONTACT PERSON: Marina Sams
8001 Forbes Place #305
Springfield, VA 22161
tel. (703) 487–4640; fax (703) 321–8199

SUBJECT AREAS COVERED: Includes all government sponsored research.

TOTAL NUMBER OF CITATIONS: Bibliographic citations: 1,721,369. Transportation related citations: 40,814.

NUMBER OF CITATIONS WITH ABSTRACTS: About 90% of citations have abstracts.

SOURCES OF DATA: Includes all government–sponsored research.

TIME SPAN: 1964 to present

UPDATING FREQUENCY: Bi–weekly

COST TO ACCESS DATABASE: For accessing the NTIS database through DIALOG, $275 one–time sign–up fee (includes one full day of training and $100 worth of free on–line time for the first few months); $75 yearly renewal fee. Search costs vary.

PUBLICATIONS PRODUCED: Government Reports, Announcements, and Index. NTIS Alerts –– covers specific topics, including transportation.

5. TRANSDOC

ORGANIZATION MAINTAINING DATABASE: Conference Europeanne, des Ministères des Transports

CONTACT PERSON: Paulette Coquand
2 rue Andre Pascal
75116 Paris Cadex 16
France
tel. (33-1) 4524-82-00; fax (33-1) 4524-97-42
telex 645740

SUBJECT AREAS COVERED: Transport Economics -- policy planning and rail technology from European countries and selected information on USA and Canada.

TOTAL NUMBER OF CITATIONS: Approximately 40,000

NUMBER OF CITATIONS WITH ABSTRACTS: All

SOURCES OF DATA: Journals, books, reports, conference proceedings, theses, research in progress

TIME SPAN: 1972 to present

UPDATING FREQUENCY: 12 months

COST TO ACCESS DATABASE: See European Space Agency (ESA) pricing.

PUBLICATIONS PRODUCED: Research in Transport Economics (annual).

6. PARTNERS FOR ADVANCE TRANSIT AND HIGHWAYS (PATH)

ORGANIZATION MAINTAINING DATABASE:	Institute of Transportation Studies Library
CONTACT PERSON:	University of California 412 McLaughlin Hall Berkeley, CA 94720 tel. (510) 642-9168; fax (510) 642-9180
SUBJECT AREAS COVERED:	IVHS; to include applications of advanced technologies to transportation.
TOTAL NUMBER OF CITATIONS:	5,300
NUMBER OF CITATIONS WITH ABSTRACTS:	5,300
SOURCES OF DATA:	Journals, books, conference proceedings, research in progress.
TIME SPAN:	1940 to present
UPDATING FREQUENCY:	Weekly
COST TO ACCESS DATABASE:	Available only to PATH researchers. Otherwise contact IVHS America at (800) 37-IVHSA
PUBLICATIONS PRODUCED:	Abstracts on IVHS (monthly)

7. RESOURCE INFORMATION SYSTEMS (RIS)

ORGANIZATION MAINTAINING DATABASE: National Center for Regional Mobility

CONTACT PERSON:
Dr. Peggy Brouse
George Mason University
Mail Stop 4A3
4400 University Drive
Fairfax, VA 22030
tel. (703) 993–1502; fax (703) 993–1521

SUBJECT AREAS COVERED: FTA's database of on–going research, calendar of events, grant information, newsletters, recent publications as well as comprehensive library of transit publications.

TOTAL NUMBER OF CITATIONS: 4,300

NUMBER OF CITATIONS WITH ABSTRACTS: 3,850

SOURCES OF DATA: Journals, books, reports, conference proceedings, research in progress.

TIME SPAN: 1984 to present

UPDATING FREQUENCY: Daily

COST TO ACCESS DATABASE: $150 per year

PUBLICATIONS PRODUCED: Disk with updated RIS information, produced every 4 months.

8. WESTLAW (TRANSPORTATION)

ORGANIZATION MAINTAINING DATABASE: West Publishing Corporation

CONTACT PERSON: Chris Dordell
620 Opperman Drive
Eagan MN 55123
tel. (612) 687-7000; fax (612) 687-7302

SUBJECT AREAS COVERED: U.S. Transportation Law, Federal Case Law, Federal Statutes and Regulations; West's Legal Directory-Transportation, Texts and Periodicals; Law Reviews, Text and Bar Journals.

TOTAL NUMBER OF CITATIONS: 175,000 cases added per year (all subject areas).

NUMBER OF CITATIONS WITH ABSTRACTS: N/A

SOURCES OF DATA: Transportation case opinions from the U.S. Supreme Court, U.S. Court of Appeals, U.S. District Courts; Federal Statutes and Regulations, Federal Administrative Law.

TIME SPAN: Varies by category

UPDATING FREQUENCY: Daily

COST TO ACCESS DATABASE: Basic Westlaw charges vary according to plan.

PUBLICATIONS PRODUCED: National Reporter System which includes transportation cases.

9. AASHTO VAN ELECTRONIC INFORMATION SERVICE

ORGANIZATION MAINTAINING DATABASE: American Association of State Highway and Transportation Officials (AASHTO)

CONTACT PERSON: Donna Tamborelli
AASHTO
tel. (202) 624-5800

SUBJECT AREAS COVERED: AASHTO-related information, E-mail communications between AASHTO members.

TOTAL NUMBER OF CITATIONS: None

NUMBER OF CITATIONS WITH ABSTRACTS: None

SOURCES OF DATA: AASHTO journals and regulations, AASHTO calendar of events, AASHTO committee listings, publications list and ordering information, interactive forums, news bulletins related to AASHTO-Van, tutorial.

UPDATING FREQUENCY: Daily

COST TO ACCESS DATABASE: This service is provided by AMVANET and runs on the IBM ADVANTIS wide-area network.

PUBLICATIONS PRODUCED: N/A

* TRB is attempting to add on-going state-funded research to its TRIS database through the AASHTO RAC Research in Progress files, AASHTO VAN is providing on-line connections between states to provide direct access to TRIS. Connection to TRIS is still under development.

(Source: AASHTO/Value Added Network (VAN) Electronic Information System (EIS) User's Manual, November 1992).

10. RESEARCH ADVISORY COMMITTEE (RAC) RESEARCH IN PROGRESS

ORGANIZATION MAINTAINING DATABASE: AASHTO Research Advisory Committee

CONTACT PERSON:
Dr. Robert J. Perry
New York State Department of Transportation
Engineering Research and Development Bureau
Building 7A, Room 600
1220 Washington Avenue
Albany, NY 12232
tel. (518) 457-5826; fax (518) 457-7535

SUBJECT AREAS COVERED: All aspects of transportation planning and engineering, including highway, urban transit, railroads, air transport, waterways, pipeline transport.

TOTAL NUMBER OF CITATIONS: 1450 at present

SOURCES OF DATA: Current research projects in each state.

UPDATING FREQUENCY: Twice per year

PUBLICATIONS PRODUCED: N/A

(Source: Ramos, Guillermo, Instructions for the Research-in-Progress Tracking System, January 1992).

11. ITE TRAFFIC ENGINEERING CLEARINGHOUSE

ORGANIZATION MAINTAINING DATABASE:	Institute of Transportation Engineers
CONTACT PERSON:	Joan Peyrebrune 525 School Street, S.W. Suite 410 Washington, D.C. 20024 tel. (202) 554-8050; fax (202) 863-5485
SUBJECT AREAS COVERED:	Traffic engineering, transportation planning, traffic operations, control and design, traffic control devices, funding, policy, legislation, and more.
TOTAL NUMBER OF CITATIONS:	4,000
NUMBER OF CITATIONS WITH ABSTRACTS:	600
SOURCES OF DATA:	Journals, books, reports, conference proceedings.
TIME SPAN:	Approximately 1973 to date
UPDATING FREQUENCY:	Continuous
COST TO ACCESS DATABASE:	Free
PUBLICATIONS PRODUCED:	A listing of articles on specific topics or by a specific author.

*The ITE Urban Traffic Engineering Clearinghouse is not on-line. Users must call the Technical Projects Manager to have a free listing faxed immediately. The electronic bulletin board has a lot of information, but on-line searches cannot be conducted.

(Source: The Urban Transportation Monitor, February 4, 1994, pp.10-11).

12. FEDERAL RESEARCH IN PROGRESS (FDRIP)

ORGANIZATION MAINTAINING DATABASE: National Technical Information Service (NTIS)

CONTACT PERSON: Product Manager
Federal Research in Progress
NTIS
5285 Port Royal
Springfield, Virginia 22161
(703) 487–4780

SUBJECT AREAS COVERED: FEDRIP database provides access to information about on–going federally funded research projects in various fields including transportation.

FILE SIZE: File 265 abridged: available worldwide 181,538 records/File 266 unabridged available only U.S. including 138,182 records.

SOURCES OF DATA: FEDRIP's research summaries are contributed by federal government agencies, including TRB.

FEDRIP provides a unique non–bibliographic information resource documenting research in progress.

Use of this database can avoid research duplication; locate sources of support; identify leads in the literature, stimulate ideas for planning, identify gaps in areas of investigation, and locate individuals with expertise.

TIME SPAN: Current Research

UPDATING FREQUENCY: Monthly

COST TO ACCESS DATABASE: $1.40/connect minute: $.75/full format offline print.

HOW TO ACCESS: Database is available through DIALOG, Files 65, SSIE current research.

(Source: The Urban Transportation Monitor, February 4, 1994, pp.10–11).

13. FEDERAL REGISTER ABSTRACTS

ORGANIZATION MAINTAINING DATABASE:	National Standards Association Gaithersburg, MD
CONTACT PERSON:	N/A
SUBJECT AREAS COVERED:	Provides comprehensive coverage of federal regulatory agency actions as published in the Federal Register.
SOURCES OF DATA:	Federal regulations, proposed rules, and legal notices issued by federal agencies. References to meetings and hearing notices, public laws, rules taking effect each day. Presidential proclamations, executive orders, and presidential determinations.
TIME SPAN:	March 1977 to present
UPDATING FREQUENCY:	Weekly
COST TO ACCESS DATABASE:	$1.20/Connect; Minute: $.25/full format; Offline print: $7.95/weekly.
HOW TO ACCESS:	Available through DIALOG
PUBLICATIONS PRODUCED:	Federal Register

(Source: The Urban Transportation Monitor, February 4, 1994, pp.10-11).

PLANNED/DEVELOPING ON-LINE TRANSPORTATION DATABASES

14. TRANSPORT

ORGANIZATIONS MAINTAINING DATABASE: Transportation Research Board (TRB), Road Transport Research Program of the Organization for Economic Development (OECD), and the European Conference of Ministries of Transport (ECMT).

PURPOSE: Creating a bibliographic database of transportation research information by integrating three existing databases: TRB's TRIS, OECD's IRRD, and ECMT's TRANSDOC into one product: TRANSPORT.

CONTACT PERSON: Suzanne Schneider
(202) 334–3708

SOURCES OF DATA: The components of TRANSPORT are: TRIS, IRRD, and TRANSDOC. TRIS includes bibliographic citations and abstracts of research information on all surface transportation modes, air transport, and highway safety. IRRD contains information provided by OECD member countries on highway research. TRANSDOC contains abstracts of transportation economics literature as well as bibliographic records provided by the International Union of Railways.

TOTAL NUMBER OF CITATIONS:

ACCESS: TRANSPORT will be available on Silver Platter Information Retrieval Software (SPIRS) (Compact Disc CD–ROM format). SPIRS is available for MS–DOS Macintosh and Windows environment.

PLANNED ACCESS DATE: Mid–1994.

(Source: Correspondence from organizations announcing plans to merge online databases).

15. STRATEGIC HIGHWAY RESEARCH PROGRAM (SHRP) INFORMATION CLEARINGHOUSE

ORGANIZATION MAINTAINING DATABASE: FHWA

PURPOSE: A computerized database is being developed by FHWA to aid SHRP product implementation by state highway agencies and facilitate communication of this information among the various partners involved in the process.

CONTACT PERSON: Charlie Churilla or Margie Sheriff
Federal Highway Administration
Office of Technology Application
400 7th Street, S.W. (HTA-3)
Washington, D.C. 20590

SOURCES OF DATA: The Information Clearinghouse with its on-line capacity will provide information about SHRP products and implementation activities.

ACCESS: Access will be gained through FHWA LAN, FTS 2000 WAN, AASHTO VAN, and possibly Internet. Needed communication software will be received at the first log-in session.

PLANNED ACCESS DATE: June 1, 1994.

(Source: Correspondence from organizations announcing plans to merge online databases).

APPENDIX C

INDEXING AND ABSTRACTING SERVICES

(Source: Krummes, Daniel and Smith, Diane, Sources of Information in Transportation, Vance Bibliographies, June 1990, [4th ed.]).

SELECTED ABSTRACTS AND INDICES IN TRANSPORTATION

- Civil Engineering Weekly Abstract Newsletter (Weekly NTIS Publication)
- Concrete Abstracts (bimonthly/ American Concrete Institute)
- Current Literature in Traffic & Transportation (Monthly)
- DOE Energy (Biweekly)
- Energy Line (Monthly)
- Engineered Materials Abstracts
- Engineering Index (monthly)
- Geoarchive (Monthly)
- Geobase (Monthly)
- Geodex System-Structural Information Services (3 times per year)
- GEOREF
- Highway Research Abstracts (TRB)
- International Road Research Documentation
- NTIS (Biweekly)
- Transportation Research Board Publications Catalog (Annual)

APPENDIX D

SELECTED TRANSPORTATION LIBRARIES

(Source: McHenry, R. E. and Cortelyou, C. Directory of Transportation Libraries and Information Centers in North America, June 1993).

University Libraries

American Heritage Center Library
University of Wyoming
P.O. Box 3924
Laramie, Wyoming 82071-3924
Tel. (307) 766-4114; Fax (307) 766-3062

Indiana University Business — Library
10th and Fee Lane
Bloomington, Indiana 47405
Tel. (812) 335-1957

Northwestern University Transportation Library
1935 Sheridan Road
Evanston, Illinois 60208-2300
Tel. (708) 491-5273; Fax (708) 491-8601
Email: tran @ nuacum,acns.nwu.edu

Texas Transportation Institute
Library Research Program
Texas A&M University
College Station, Texas 77943-3135
Tel. (409) 845-1636; Fax (409) 845-9848
Email: sandy@ttiadmin.tamu.edu

University of California at Berkeley
Institute of Transportation Studies Library
412 McLaughlin Hall
Berkeley, California 94720
Tel. (510) 642-3604; Fax (510) 642-9180

University of Michigan
Transportation Research Institute Library
2901 Baxter Road
Ann Arbor, Michigan 48109
Tel. (313) 764-2171; Fax (313) 936-1081

University of Nevada at Las Vegas
Transportation Research Center
James R. Dickinson Library
4504 Maryland Parkway
Las Vegas, Nevada 89154-7001
Tel. (702) 739-1397; Fax (702) 730-0962
Email: jebroome@redrock.nevada.edu

University Libraries (cont.)

University of North Carolina
Highway Safety Research Center Library
134 1/2 E.Franklin Street
Campus Box 3430
Chapel Hill, North Carolina 27599-3430
Tel. (919) 962-8701; Fax (919) 962-8710

Consultant Transportation Libraries

JHK & Associates Technical Libraries
Western Consulting Division
110 South Church Avenue, Suite 470
Tucson, Arizona 85701
Tel. (602) 624-2306; Fax (602) 624-5290

J. J. Keller & Associates, Inc.
Research & Technical Library
3003 Breezewood Lane
Neenah, Wisconsin 54957-0368
Tel. (414) 728-2848; Fax (414) 727-7455

John McMullen Associates
Office-Wide Library (OWL)
Suite 715, Century Building
2341 Jefferson Davis Highway
Arlington, Virginia 22202-3887
Tel. (703) 418-1687; Fax (703) 418-4269

Lockheed IMS
300 Frank W. Burr Boulevard
Glenpointe Centre East
Teaneck, New Jersey 07666
Tel. (201) 996-7000; Fax (201) 692-0971

LTK Engineering Services Library
Two Valley Square, Suite 300
512 Township Line Road
Blue Bell, Pennsylvania 19422
Tel. (215) 542-0700; Fax (215) 542-7676

McKay & Company Library
One Imperial Place
Lombard, Illinois 60148
Tel. (708) 916-6110; Fax (708)916-4661

Consultant Transportation Libraries (cont.)

Reebie Associates Library
P.O. Box 1278
Greenwich, Connecticut 06836
Tel. (203) 661-8661; Fax (203) 661-8886

TRA Architecture Engineering
Planning Interiors, Ltd. Library
215 Columbia Street
Seattle, Washington 98104
Tel. (206) 224-4653; Fax (206) 621-8782

Wilson, Ihrig & Associates, Inc.
Library
5776 Broadway
Oakland, California 94618
Tel. (510) 658-6719; Fax (510) 652-4441

Research Institutes Transportation Libraries

Eaton Corporation
Engineering & Research Center Library
26201 Northwestern
P.O. Box 766
Southfield, Michigan 48037
Tel. (313) 354-6979; Fax (313) 354-2739

Virginia Transportation Research Council
Library
P.O. Box 3817
University Station
Charlottesville, Virginia 22903
Tel. (804) 293-1959; Fax (804) 293-1990

Volpe National Transportation Systems Center
Technical Reference Center, Kendall Square
Cambridge, Massachusetts 02142
Tel. (617) 494-2306; Fax (617) 494-2497

Western Highway Institute
Research Library
1200 Bayhill Drive, Suite 112
San Bruno, California 94066
Tel. (415) 952-4900; Fax (415) 588-0424

State Department of Transportation Libraries

Arizona Transportation Research Center
Library
Arizona DOT
206 S. 17th Avenue, #075 R
Phoenix, Arizona 85007
Tel. (602) 831-0624; Fax (602) 831-5677

California DOT Transportation Library
1120 N. Street
Sacramento, California 95814
Tel. (916) 654-4601; Fax (916) 654-6011

Delaware DOT Library
Rt. 113
Transportation Administration Building
Dover, Delaware 19901
Tel. (302) 739-4157; Fax (302) 739-6119

Florida DOT Research Center Library
605 Swannee Street, MS-30
Burns Building, Room 249
Tallahassee, Florida 32399-0450
Tel. (904) 488-8572; Fax (904) 487-3403

Idaho State Library
325 West State Street
Boise, Idaho 83702
Tel. (208) 334-2150; Fax (208) 334-4016
EMail CLASS. ISL

Massachusetts State Transportation
Library
10 Park Plaza
Boston, Massachusetts 02116
Tel. (617) 973-8000; Fax (617) 973-7153

Michigan Department of Transportation
Resource Center
P.O. Box 30050
425 West Ottawa
Lansing, Michigan 48909
Tel. (517) 373-1545; Fax (517) 373-0168
EMail HTO 10023 (AASHTO)

State Department of Transportation Libraries (cont.)

Minnesota Department of Transportation
Information Services Center
395 John Ireland Boulevard, Room B23 St. Paul, Minnesota 55155
Tel. (612) 296-2385; Fax (612) 296-2354

Mississippi State Highway Department
Research & Development Division Library
501 North West Street
P.O. Box 1850
Jackson, Mississippi 39215-1850
Tel. (601) 359-1174; Fax (601) 359-2233

Nebraska Department of Roads
Technical Research Library
1500 Nebraska Highway 2
P.O. Box 94759
Lincoln, Nebraska 68509-4659
Tel. (402) 479-4316; Fax (402) 479-3989
EMail AEM-HTO 10028 (AASHTO)

NYS Department of Transportation
Engineering R&D Bureau Library
Building 7A, Room 600
1220 Washington Avenue
Albany, New York 12232
Tel. (518) 457-5616; Fax (518) 457-7535
Email: ny0045@mail.nyser.net

Ohio DOT Library
25 South Front Street
Columbus, Ohio 43215
Tel. (614) 466-7680

Oregon Department of Transportation
Tran Search Library
522 Transportation Building
Salem, Oregon 97310
Tel. (503) 378-6268; Fax (503) 378-7376

Pennsylvania DOT
Transportation Employees Library
903 T&S Building
Harrisburg, Pennsylvania 17120
Tel. (717) 787-6527; Fax (717) 783-7971

State Department of Transportation Libraries (cont.)

Tennessee Department of Transportation
Library
Suite 300, James K. Polk Building
Nashville, Tennessee 37243-0345
Tel. (615) 741-2330; Fax (615) 741-2508

Washington State Department of Transportation Library
P.O. Box 47425
Olympia, Washington 98504-7425
Tel. (206) 705-7750; Fax (206) 705-6808
Email: hla@wsdot.wa.gov;AASHTO-VAN

Wisconsin Department of Transportation
Library
4802 Sheboygan Avenue, Room 901
P.O. Box 7913
Madison, Wisconsin 53707
Tel. (603) 266-0724; Fax (608) 267-0294

Trade Organization/Intergovernmental Libraries

AASHTO Information Center
444 North Capitol Street, NW, Suite 249
Washington, D.C. 20001-1512
Tel. (202) 624-8918; Fax (202) 624-5806
EMail: AASHT 12

Ashpalt Institute Library
Research Park Drive
P.O. Box 14052
Executive Offices & Research Center
Lexington, Kentucky 40512-4052
Tel. (606) 288-4960; Fax (606) 288-4999

Portland Cement Association
Library Services
5420 Old Orchard Road
Skokie, Illinois 60077
Tel. (708) 965-7500 x534/536
Fax (708) 965-6541
Email: 9102407163 (TELEX)

Trade Organization/Intergovernmental Libraries (cont.)

Transportation Research Board Library
National Research Council (U.S.)
2001 Wisconsin Avenue, GR 314
Washington, D.C. 2007
Mailing Address: 2101 Constitution Avenue, NW/Washington, DC/20418
Tel. (202) 334-2989; Fax (202) 334-2527
Email: Internet BPOST@NAS.EDU
AASHTO - hto10080

Regional Transportation Libraries

Alaska Transportation
Technology Transfer Program Library
2301 Peger Road
M/S 2552
Fairbanks, Alaska 99709-5316
Tel. (907) 474-2484; Fax (907) 474-2446

Battelle Memorial Institute
Transportation Library
505 King Avenue
Columbus, Ohio 43201-2693
Tel. (614) 424-7358; Fax (614) 424-5069
Email: HAASL@BCLC.1.IM.BATTELLE.ORG

Metropolitan Transportation Commission
Association of Bay Area Governments
MTC-ABAG Library
101 8th Street
Oakland, California 94607-4700
Tel. (510) 464-7836; Fax (510) 464-7848
Email: metropol@ class org.

Orange County Transportation Authority
Resource Center
11222 Acacia Parkway
Garden Grove, California 92649-5208
Tel. (714) 638-9000; Fax (714) 530-8314

Puget Sound Regional Council
Information Center
216 1st Avenue, South
Seattle, Washington 98104
Tel. (206)464-7532; Fax (206) 587-4825

Federal Transportation Libraries

U.S. Department of Transportation
Library and Distribution Services Division, M–49
Nassif Building (Main Lib)
400 Seventh Street, S.W.
Washington, D.C. 20590
Tel. (202) 366–0746 Fax (202) 366–3670

U.S. Department of Transportation
Library and Distribution Services Division
M-49
Transpoint Building (USCG Law Lib)
2100 2nd Street, SW
Washington, D.C. 20593
Tel. (202) 267-2536; Fax (202) 267-4201

Canadian Libraries

Alberta Transportation & Utilities Library
Twin Atria Building, 1st Floor
4999-48 Avenue
Edmonton, Alberta
CANADA T6B2x3
Tel. (403) 427-8802

Canada Institute for Scientific and Technical Information
Library
National Research Council of Canada
Building M-2, Montreal Road
Ottawa, Ontario
CANADA KIA OR6
Tel. (613) 993-2431; Fax (613) 952-7158
Email: ENVOY CISTI, PRKN

École Polytechnique De Montréal Library
P.O. Box 6079, Station A
Montréal, Quebec
CANADA H3C5A7
Tel. (514) 340-4666 (514) 340-4652
Fax (514) 340-4026
Email 1040@POLYTEC1.CA

Canadian Libraries (cont.)

Canadian Transportation Information Centers
Saskatchewan Highways
and Transportation Library
1855 Victoria Avenue
Regina, Saskatchewan
CANADA S4P 3V5
Tel. (306) 787-4778; Fax (306) 787-3963

New Brunswick DOT Library
P.O. Box 6000
Fredericton N.B.
CANADA E3B5H1
Tel. (506) 453-2325; Fax (506) 453-3817

Nova Scotia DOT & Communications
Head Office Library
1969 Upper Water Street
Halifax, Nova Scotia
CANADA B3J3R7
Tel. (902) 424-6720

Ontario Ministry of Transportation
Library & Information Centre
1201 Wilson Avenue
Central Building
Downsview, Ontario
CANADA M3M158
Tel. (416) 235-4546; Fax (416) 235-4915

Québec Ministère des Transports
Centre de Documentation
700, boul. St-Cyrille EST
22e étage
Québec G1R5H1
CANADA
Tel. (418) 643-3578; Fax (418) 643-1269

Toronto Metro Corporate Research Services
Metro Hall, 55 John Street
Toronto, Ontario M5V 3C6
CANADA
Tel. (416) 392-8917; Fax (416) 392-7229
Email: ILL.OTMSM

Canadian Libraries (cont.)

Transport Canada Regional Library
333 Main Street, 16th Floor
Winnipeg, Manitoba R3c 0P6
CANADA
Tel. (204) 983-6853; Fax (204) 984-2255

Transport Canada
Transportation Development Centre Library
200 Rene Levèsque Boulevard West
West Tower, Suite 601
Montréal, Québec H2Z 1x4
CANADA
Tel. (514) 283-0007; Fax (514) 283-7158

Université de Montréal
Centre de Researche Sur Les Transports
Centre de Documentation
3535 Queen Mary #430
Montreal, Quebec H1V 1H8
CANADA
Tel. (514) 343-7575; Fax (514) 343-7121
Email: sylvieh@crt.umontreal.ca

APPENDIX E

PROFESSIONAL SOCIETIES AND TRADE ORGANIZATIONS

(Source: Krummes, Daniel and Smith, Diane, Sources of Information in Transportation, Vance Bibliographies, 1990 [4th ed.])

PROFESSIONAL SOCIETIES AND TRADE ORGANIZATIONS

- American Association of Engineering Societies
- American Association of State Highway and Transportation Officials (AASHTO)
- American Concrete Institute
- American Geological Institute
- American Institute of Chemical Engineers (AIChE)
- American Institute of Electronic and Electric Engineers (IEEE)
- American Institute of Steel Construction
- American Iron & Steel Institute
- American Public Works Association
- American Road & Transportation Builders Association
- American Society of Civil Engineers (ASCE)
- American Society of Mechanical Engineers (ASME)
- American Society for Testing and Materials
- Canadian Technical Asphalt Association
- Concrete Reinforcing Steel Institute
- Institute of Transportation Engineers
- International Association for Accident and Traffic Medicine
- International Municipal Signal Association
- International Organization for Standardization
- International Road Federation
- Prestressed Concrete Institute
- Reinforcing & Steel Institute of Ontario
- Roads & Transportation Association of Canada

APPENDIX F

COMMERCIAL INTERNET PROVIDERS

Commercial Internet Providers

ANS
Advanced Network and Services Inc.
U.S. and International
(914) 789-5300
info@ans.net

AT&T's Data Communications Service
U.S. and International
(800) 247-1212
or send a fax to Johniecia Clemmons
at (904) 636-3078
admin@ds.internic.net

BARRNET
Bay Area Regional Research Network
Northern/Central California
(415) 725-1790
info@barrnet.net

BIX
Byte Information Exchange
U.S. and International
(800) 695-4775, (617) 354-5781
bix.com

CERFnet
California Education and Research
Federation Network
Western U.S. and International
(800) 876-2373, (619) 455-3900
help@cerf.net

CICnet
Committee on Institutional
Cooperation Network
Midwest U.S.
(313) 998-6104
info@cic.net

Delphi
U.S. and International
(800) 695-4005, (617) 491-3342
info@delphi.com

JVNCnet
Global Enterprise Service Inc.
U.S. and International
(800) 358-4437, (609) 897-7300
market@jvnc.net

MIDnet
Midwestern States Network
Midwest U.S.
(402) 472-7600
nic@westie.mid.net

NERnet
BBN (Bolt Beranek & Newman)
Technology Services Inc.
Northeastern U.S.
(617) 873-8730
nearnet-join@nic.near.net

Northwestnet
Northwestern U.S.
(206) 562-300
info@nwnet.net

PSI
Performance Systems International Inc.
U.S. and International
(800) 827-7482, (703) 904-7187
info@psi.com

SURAnet
Southeastern Universities Research
Association Network
Southeastern U.S.
(800) 787-2638, (301) 982-4600
marketing@sura.net

Sprintlink
U.S. and International
(703) 904-2156
info@sprintlink.net

UUNET Technologies Inc.
U.S. and International
(800) 488-6383, (703) 204-8000
alternet-info@uunet.uu.net

APPENDIX G

SELECTED INTERNET TRANSPORTATION–RELATED DISCUSSION LISTS

(Source: Correspondence from Jerome T. Maddock, Manager, Information Services, Transportation Research Board, June 1994)

1. Internet Interest Group on Transportation (transp-l@gmu.edu)

To subscribe:	E-mail to:	listproc@gmu.edu
	Subject Field:	leave blank
	Message Field:	subscribe transp-l <your name>

To post something on the list, send message to transp-l@gmu.edu and it will be distributed to all list subscribers. Contributions pertaining to transportation and traffic engineering are strongly encouraged. Articles can be on new technologies, interesting projects, research, upcoming conferences, etc. Also welcome are questions and comments about the profession.

Making contacts with other transportation engineers/planners is very important. Hopefully, this discussion list will assist students, faculty, and professionals alike, make some of those contacts. If you have any administrative questions about TRANSP-L, they can be sent to the editor, Jonathan Gifford (jgifford@gmu.edu).

2. UTSG (Universities Transport Study Group) Electronic Mailing List

To subscribe:	E-mail to:	mailbase@mailbase.ac.uk
	Subject Field:	leave blank
	Message Field:	subscribe utsg <your name>

This mailbase list has been set up by the Universities Transport Studies Group (UTSG) in order to provide an electronic discussion forum and information resource for researchers in the field of transport, primarily in the academic community. It aims to facilitate information sharing, (e.g., news of workshops, seminars, conferences, and new research) and to promote links, collaborative working, joint problem-solving, and mutual support. The mailbase is operated by the Institute for Transport Studies, University of Leeds, LS2 9JT, United Kingdom.

3. DOT Internet Discussion Group

To subscribe:	E-mail to:	dot%3ew@dot.ca.gov
	Subject Field:	leave blank
	Message Field:	subscribe <your name>

This group consists of public organizations who are a part of the transportation industry. City/county road commissions, state/provincial DOTs. federal agencies, etc. are encouraged to participate in this discussion group. This is not restricted to any discipline, and includes both rank and file and management. As this group grows, creating subsets for particular areas of interest will be considered. Also, private consulting firms who work within the transportation industry and vendors who provide hardware/software solutions for the same are welcome to participate in this group.

Contact: Donald C. Stone
Information Systems Analyst
California Department of Transportation
District 03 Main Office

703 "B" Street
Marysville, California 95901
Tel. (916) 741-4031
Email: dstone%trmx2@dot.ca.gov

4. Infrastructure Technology Institute Discussion List (ITI-L)

To subscribe:	E-mail to:	listserv@listserv.acns.nwu.edu
	Subject Field:	leave blank
	Message Field:	subscribe ITI-L <your name>

ITI-L serves as a discussion list for the research associates of the Infrastructure Technology Institute at Northwestern University in Evanston, Illinois. It is a forum for the discussion and exchange of information regarding infrastructure issues from both within and outside the University community. The Institute was established at Northwestern in 1991 with funds resulting from Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) legislation. The Institute's purpose is to develop a research program to combat the nation's crumbling infrastructure problem using the resources of the University, namely the Department's of Civil, Electrical, Industrial, Mechanical Engineering and Materials Science; the Basic Industrial Research Laboratory (BIRL); the Center for Quality Engineering and Failure Prevention (CQEFP); the Center for Non-Destructive Testing; the NSF Center for Advanced Cement-Based Materials (ACBM); and other departments and centers on campus. Currently-funded projects include fiber-reinforced soil cement or recycled aggregate for pavement base course, automated pavement repair vehicle (APRV), improved bridge condition monitoring, surface-tolerant bridge coatings, weldable high performance steels, stray current corrosion of electrified rail systems, and non-destructive evaluation (NDE) for concrete bridge decks. To send a message to all other members of ITI-L, address the message to:

ITI-L@LISTSERV.ACNS.NWU.EDU

Your comments and suggestions are welcome. Please return them to Renee McHenry, ITI-L list manager at the address below:

Renee McHenry
Infrastructure Technology Institute Librarian
Seeley G. Mudd Library for Science and Engineering
2233 North Campus Drive
Evanston, Illinois 60208-3530
Tel. (708) 467-4637; Fax (708) 491-4655
Email: r-mchenry@nwu.edu

5. Engineering-Concrete List

To subscribe:	E-mail to:	mailbase@mailbase.ac.uk
	Subject Field:	leave blank
	Message Field:	subscribe engineering-concrete <your name>

This list is intended for those with an interest in concrete research and the use of concrete as a structural material. There is no restriction on the subject matter of messages (other than that it should be related to concrete, of course). I am Andy Vann, a lecturer at Bristol University in the Civil Engineering Department. At present I am the list "owner" which means I have control over it. Having said this, the list is currently completely open, which means anyone can join and contribute to it. If there is anything you want to address to me (rather than the list) you can e-mail me at A.M. Vann@bristol.ac.uk.

6. National Engineering Information Initiative (NEII)

To subscribe:	E-mail to:	listserv@sun7.loc.gov
	Subject Field:	leave blank
	Message Field:	subscribe neii <your name>

The goal of the National Engineering Information Initiative (NEII@CNI.ORG) Forum is to support communication among persons engaged in a collaborative effort to increase engineering productivity through enhanced access to and use of engineering information and data. Initially, the electronic NEII Forum (operated as a unix-listserv) will link participants from a June 1992 Conference for Exploration of a National Engineering Information Service, sponsored by the Engineering Foundation and the Council on Library Resources (90 people). It is expected to expand to include other interested persons. The NEII Forum provides a way for participants to keep each other informed about multiple efforts underway to

1. encourage development and experimentation with models and prototypes that enhance access to engineering information and data,

2. encourage course work in undergraduate engineering education to assure that new engineers are skilled in the use of emerging electronic information support systems,

3. pursue engineering professional information needs assessments,

4. keep abreast of other developments or pilot experiments to improve access to STI in general, and

5. maintain an active network of resources and people concerned with development of a distributed national engineering information service.

The NEII Forum is a joint project of the Association of Research Libraries and the Library of Congress. The Forum unix-listserv platform is being provided by the ARL-EDUCOM-CAUSE Coalition for Networked Information. All questions regarding subscribing to the forum, difficulties with mail or requests for technical assistance should be sent to the ARL/Coalition Systems Coordinator, Craig A. Summerhill (craig.@cni.org). The NEII Forum Moderator is Bill Ellis, Associate Librarian for Science and Technology, Library of Congress <well@seq1.loc.gov>. Bill has agreed to take responsibility for regular monitoring of the communications in the Forum. He will be assisted by Virginia Sorkin, Information Technology Services, Library of Congress. Bill and other volunteers from the conference will take active roles in facilitating and encouraging use of the Forum for the goal and purposes as outlined above.

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LRI